

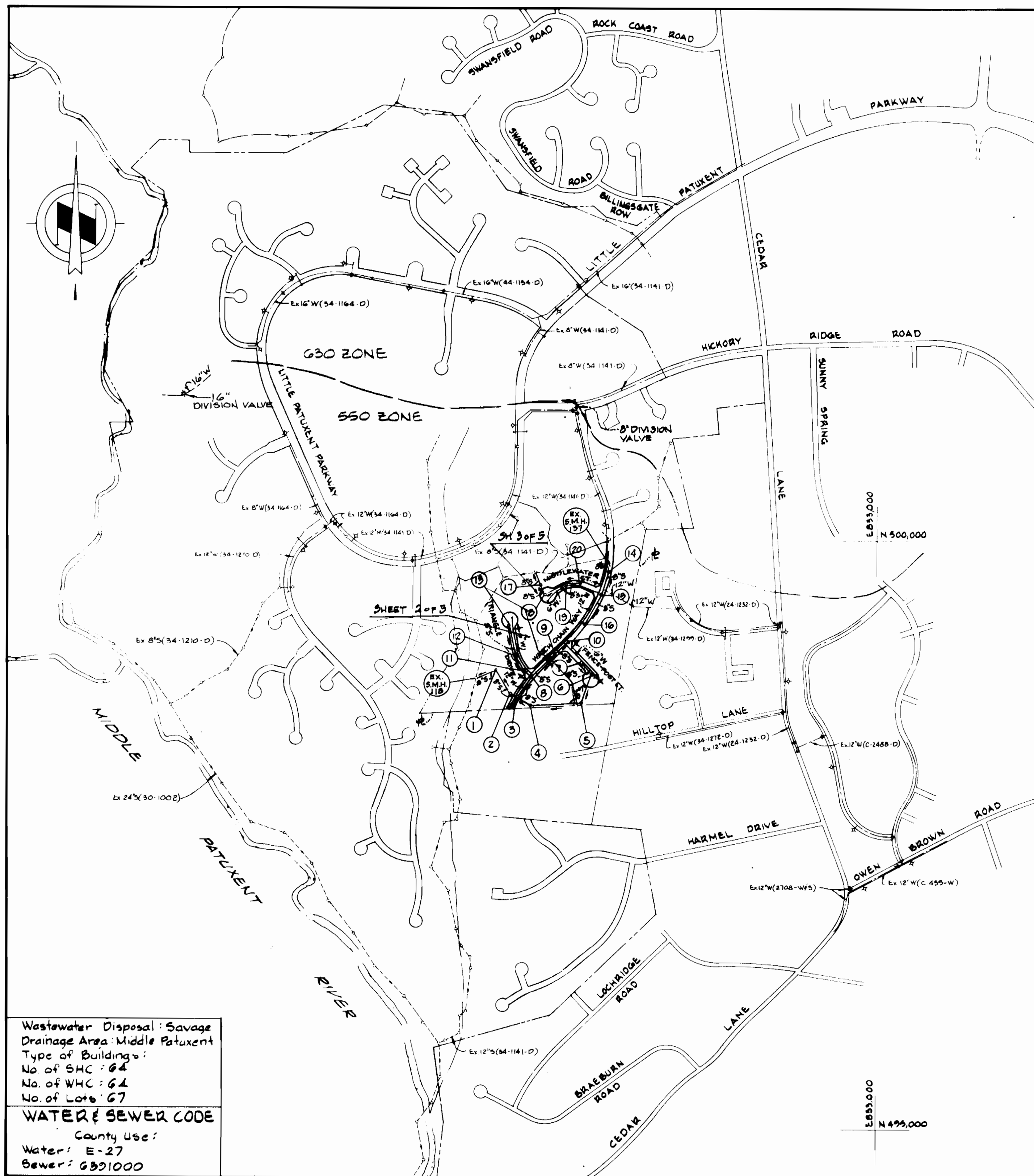
GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [ ] AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
  - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
  - MISS UTILITY - 1 - 559-0100
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G5-52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- THE CONTRACTOR SHALL COORDINATE WITH HOWARD COUNTY CONSTRUCTION INSPECTION/SURVEY DIVISION & HOWARD COUNTY BUREAU OF UTILITIES, THE CLOSING OF PROPOSED WATER DIVISION VALVES ON CONTRACTS 34-1371-D & 34-1141-D AT THE TIME OF PLACING THIS CONTRACT IN SERVICE AND THE TIE-IN WITH CONTRACT 34-1299-D.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" SEWER	3613 LF	3781 LF	J.M. MANUFACTURING
6" WATER	1365 LF	1412 LF	US PIPE & FOUNDRY CO.
12" WATER	1885 LF	1981 LF	" " " "
F.H.	7	6	METROPOLITAN/US PIPE
12" VALVE	2	3	" " " "
6" V(LINE)	3	3	US PIPE & FOUNDRY
6" F.H. VALVES	7	6	" " " "
12"x12" TEE	1	1	" " " "
12"x6" TEE	5	6	" " " "
12" 1/8 BEND	1	1	" " " "
12" 1/4 BEND	1	1	" " " "
12" CAP & BUTT.	1	1	" " " "
6" CAP	1	3	" " " "
1 1/2" BLOWOFF	1	3	TYPE K / FORD
SAN. MANHOLES	19	20	ATLANTIC PRECAST
NOTE: ALL WATER MAIN TO BE D.I.P.			
840 LF	3/4" W.H.C.	945 LF	TYPE K / FORD
575 LF	1" W.H.C.	640	" " " "
1445 LF	6" S.H.C.	1530	J-M MANUFACTURING

WR \*A BM HICKORY #43- RR SPIKE IN BASE OF 15" HICKORY 125' LEFT OF STA. 25+10 L.P.P. ELEV. 431.66

WR \*A BM HICKORY #92- RR SPIKE IN BASE OF 30" HICKORY 80' RIGHT OF STA. 21+15 HICKORY RIDGE ROAD ELEV. 421.93



Wastewater Disposal: Savage  
 Drainage Area: Middle Patuxent  
 Type of Building:  
 No. of S.H.C.: 64  
 No. of W.H.C.: 64  
 No. of Lots: 67

**WATER & SEWER CODE**  
 County Use:  
 Water: E-27  
 Sewer: G301000

CONTRACT NO. 34-1437-D  
 VILLAGE OF HICKORY RIDGE  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

Signature: *A. Helm* DATE: 5/28/06  
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.

APPROVED: Signature: *Stephen L. Fisher* DATE: 5/29/06  
 HOWARD S.C.D.

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications, and F-36-128 Sediment Control Plans.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

Signature: *James N. ...* DATE: 6-8-06  
 DIRECTOR OF PUBLIC WORKS - DATE

Signature: *Robert ...* DATE: 6-8-06  
 CHIEF - BUREAU OF UTILITIES - DATE

Signature: *...* DATE: 6-8-06  
 CHIEF - BUREAU OF ENGINEERING - DATE

Signature: *...* DATE: 6-8-06  
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

KIDDE CONSULTANTS, INC.  
 ENGINEERS - PLANNERS - SURVEYORS  
 1020 CROMWELL BRIDGE RD.  
 TOWSON, MARYLAND 21204

Professional Engineer Seal: *...*

DES	W.B.				
DRN	E.B.J.				
CHK	A.S.B.				
DATE	3-7-86	BY	NO	REVISION	DATE

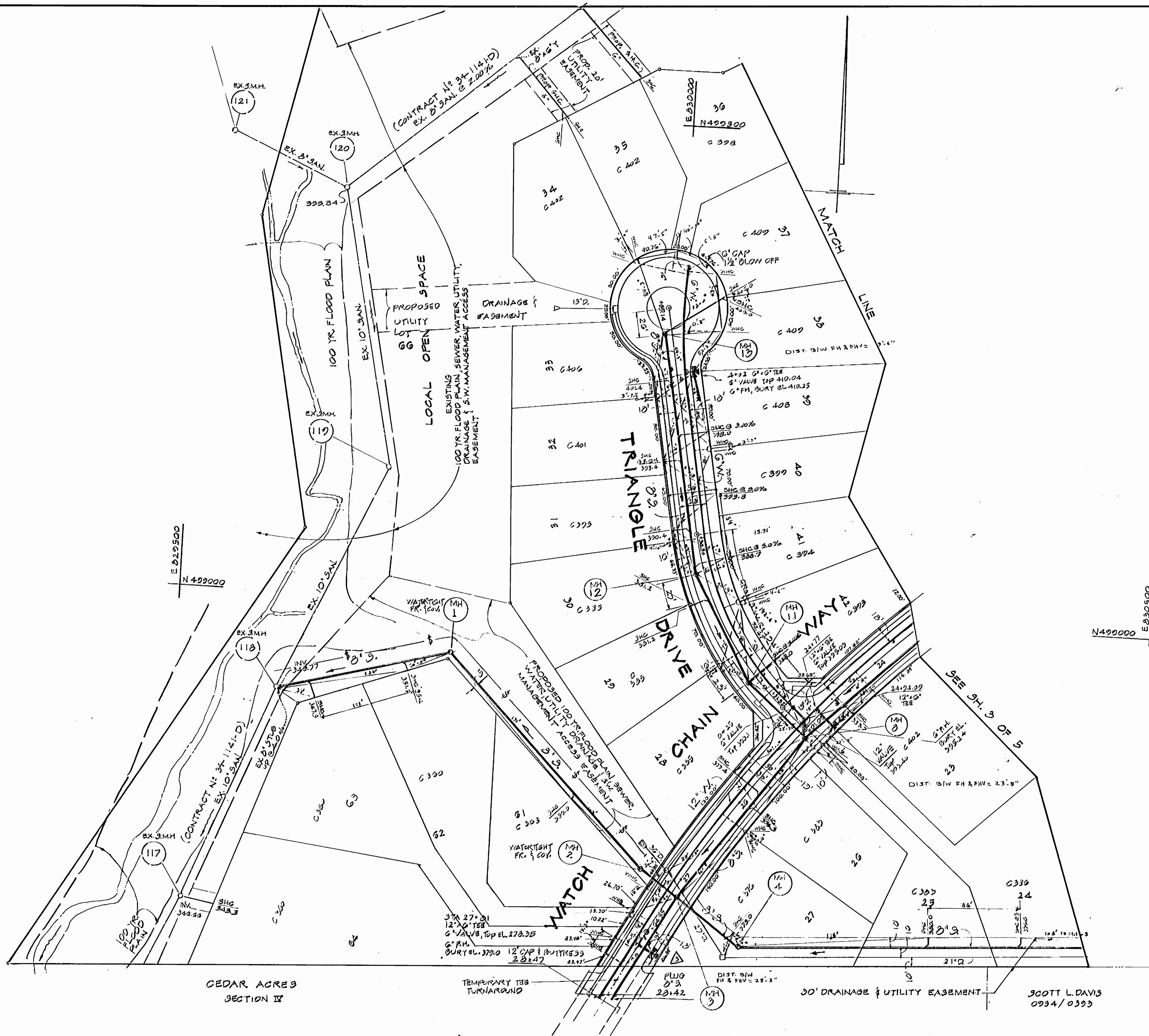
VICINITY MAP AND GENERAL NOTES

600 SCALE MAP NO. 35 BLOCK NO. 10

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 12  
 ELECTION DISTRICT NO. 5  
 CONTRACT NO. 34-1437-D

SCALE  
 1"=600'

SHEET  
 1 OF 5



CEDAR ACRES  
SECTION IV

TEMPORARY TEE  
TURNAROUND

30' DRAINAGE & UTILITY EASEMENT

SCOTT L. DAVIS  
0934/0393

NOTE: ELEVATIONS SHOWN IN LOTS  
ARE THE LOWEST ELEVATIONS  
OF BUILDINGS.  
  
PLACE SILT FENCE AS SHOWN  
BETWEEN MANHOLES 2 AND 118.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*James Neuman* 6-6-36  
DIRECTOR OF PUBLIC WORKS DATE  
*Robert R. Brown* 6-4-36  
CHIEF, BUREAU OF UTILITIES DATE

KIDDE CONSULTANTS, INC.  
ENGINEERS - PLANNERS - SURVEYORS  
1020 CROMWELL BRIDGE ROAD  
TOWSON, MARYLAND 21284



DESIGNED W.V.W.B.				
DRAWN W.V.W.B.				
CHECKED A.S.B.	K.C.I.	CHANGED FIRE HYDRANT	9/12/36	
DATE 5-17-36	K.C.I.	CHANGED C.B.	9/24/36	
	BY	NO	REVISION	DATE

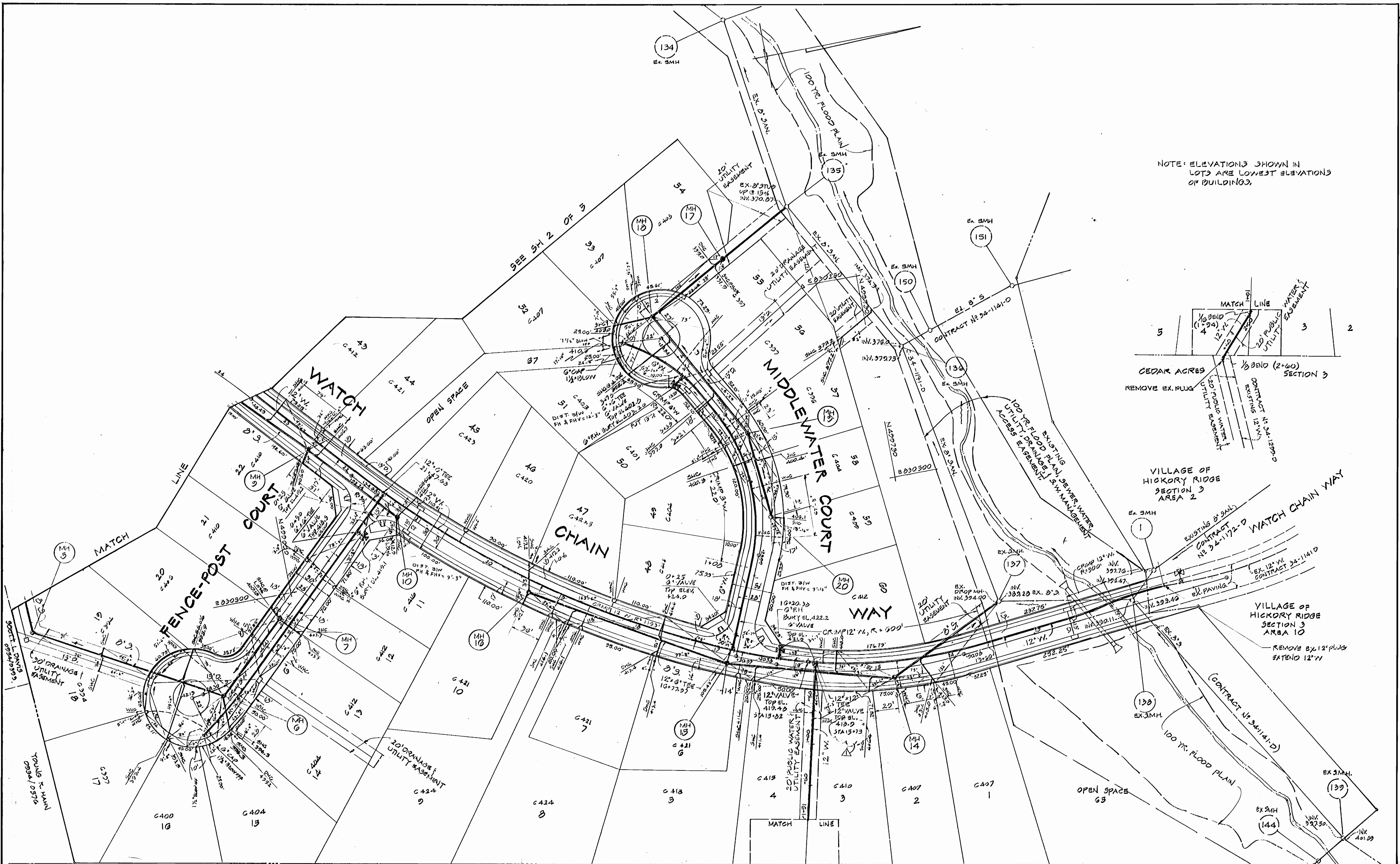
PLAN OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 12  
3<sup>RD</sup> ELECTION DISTRICT  
CONTRACT NO 34-1437-D

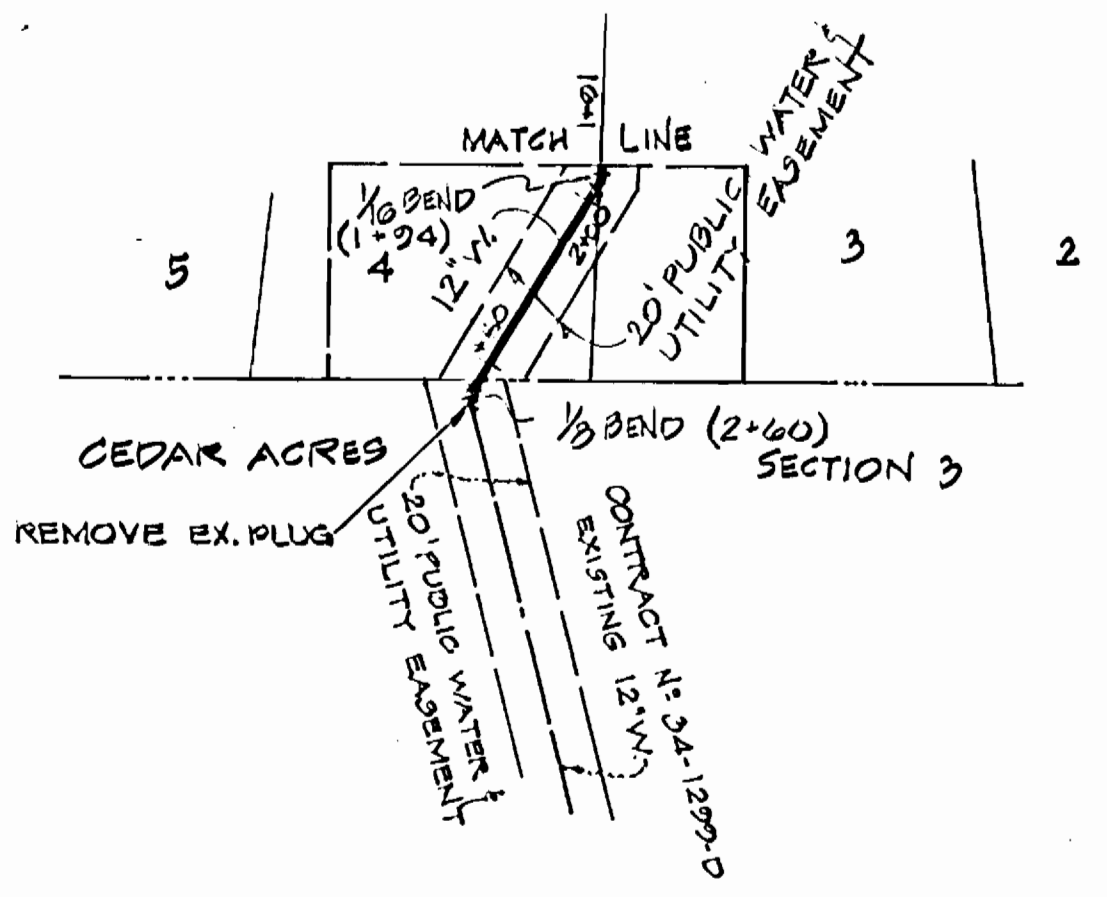
SCALE  
1" = 30'  
SHEET  
2 OF 5

AS-BUILT

J. 30023



NOTE: ELEVATIONS SHOWN IN LOTS ARE LOWEST ELEVATIONS OF BUILDINGS.



CEDAR ACRES SECT. 2

CEDAR ACRES SECT. 1

CEDAR ACRES SECTION 3

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*John F. Neuman* 6-6-70  
 DIRECTOR OF PUBLIC WORKS DATE  
*R. W. Rummy* 6-4-80  
 CHIEF, BUREAU OF UTILITIES DATE

KIDDE CONSULTANTS, INC.  
 ENGINEERS • PLANNERS • SURVEYORS  
 1020 CROMWELL BRIDGE ROAD  
 TOWSON, MARYLAND 21204

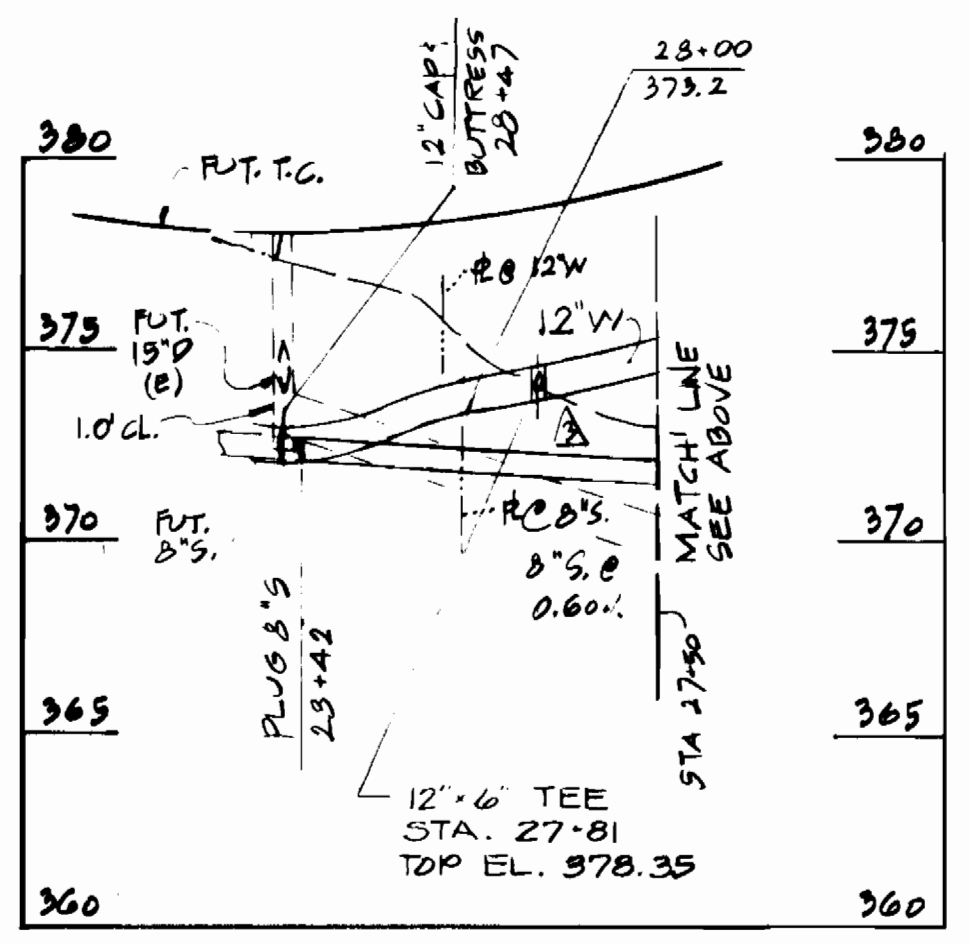
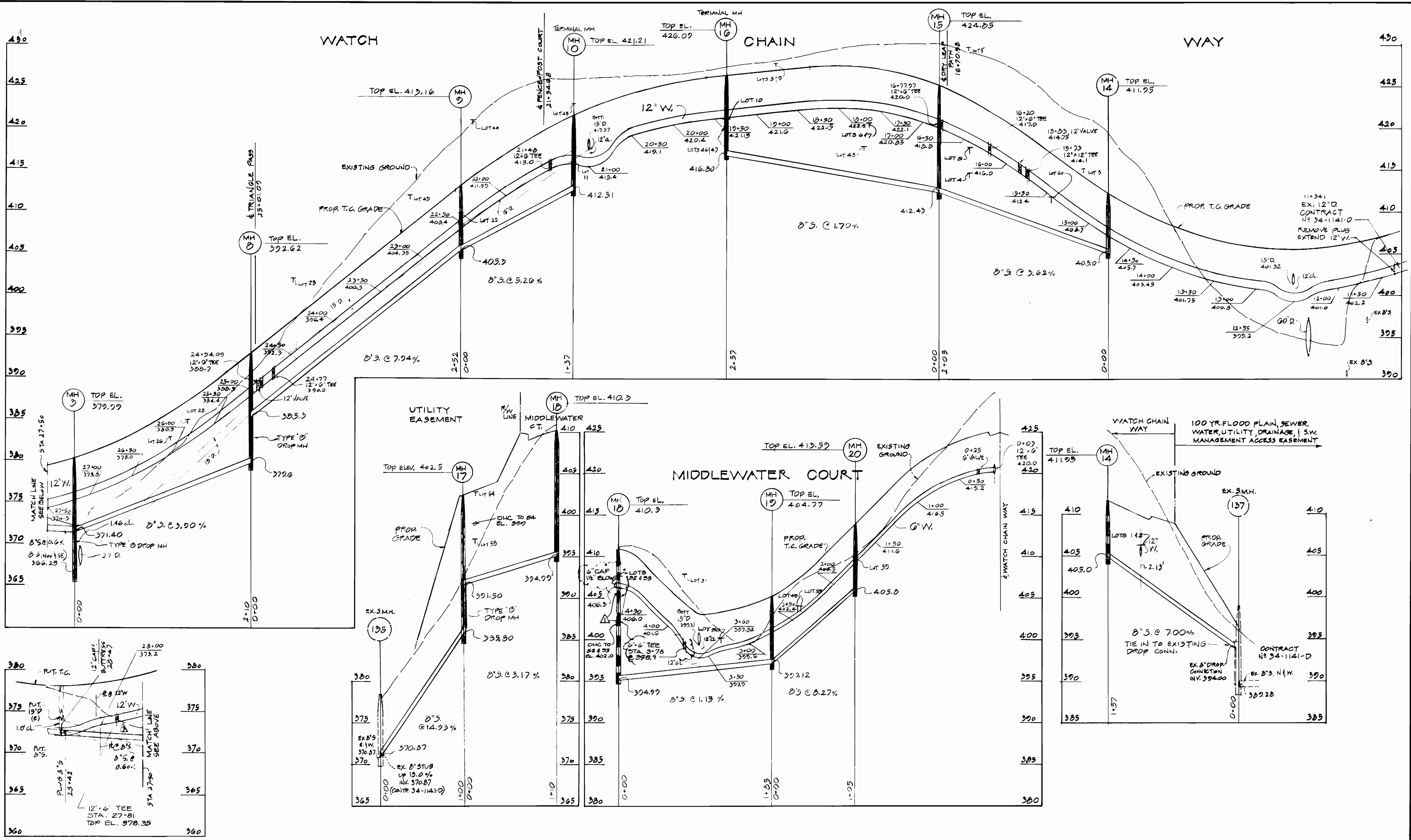


DESIGNED	W.M.B.				
DRAWN	W.M.B.				
CHECKED	A.S.B.				
DATE	5-12-96				
BY	NR				
K.C.I.	2	CHANGED	C.E.	6/25/80	
K.C.I.	1	VALVE STA. CHG.		7/22/80	
REVISION					

PLAN OF  
 WATER & SEWER MAINS  
 GOD'S SCALE MAP NO. 23 BLOCK NO. 10

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 12  
 9<sup>TH</sup> ELECTION DISTRICT  
 CONTRACT NO. 34-1437-D

SCALE  
 1" = 50'  
 SHEET  
 3 OF 5



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 6-6-16  
 DIRECTOR OF PUBLIC WORKS DATE  
 R.A.W. 6-9-86  
 CHIEF, BUREAU OF UTILITIES DATE

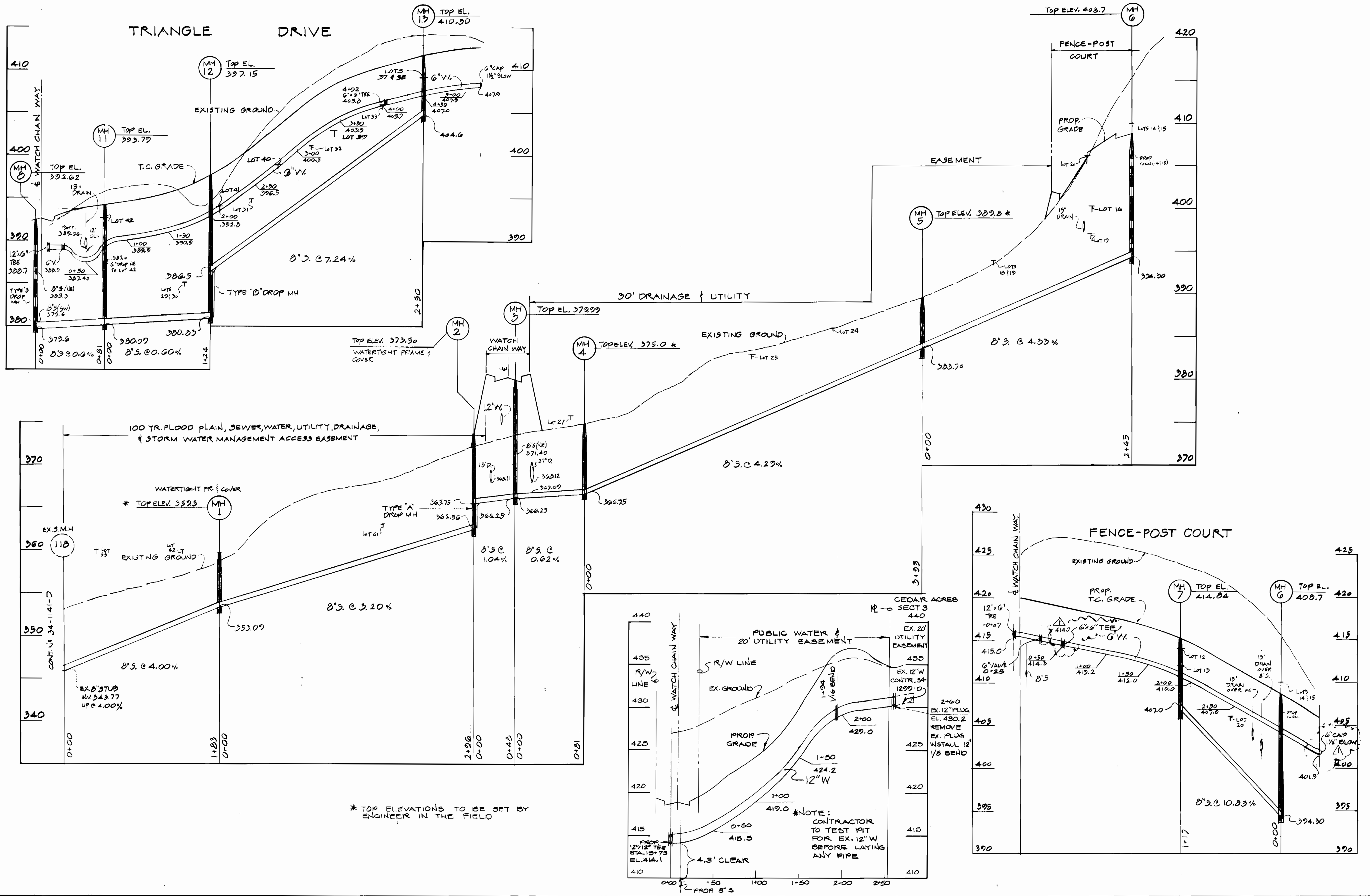
KIDDE CONSULTANTS, INC.  
 ENGINEERS • PLANNERS • SURVEYORS  
 1020 CROMWELL BRIDGE ROAD  
 TOWSON, MARYLAND 21284



DESIGNED	W.W.B.	DATE
DRAYN <td>W.W.B. <td></td> </td>	W.W.B. <td></td>	
CHECKED <td>A.S.D. <td>5-12-86</td> </td>	A.S.D. <td>5-12-86</td>	5-12-86
DATE <td>BY <td>NO</td> </td>	BY <td>NO</td>	NO

PROFILES OF  
 WATER & SEWER MAINS  
 600' SCALE MAP NO. 32 BLOCK NO. 12

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 12  
 3RD ELECTION DISTRICT  
 CONTRACT NO. 34-1437-D  
 AS-BUILT  
 SCALE: 1" = 30' HOR. 1" = 5' VERT.  
 SHEET 4 OF 5



\* TOP ELEVATIONS TO BE SET BY ENGINEER IN THE FIELD

#NOTE:  
CONTRACTOR  
TO TEST PIT  
FOR EX. 12" W  
BEFORE LAYING  
ANY PIPE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
6-4-86  
6-9-86  
DATE

KIDDE CONSULTANTS, INC.  
ENGINEERS • PLANNERS • SURVEYORS  
1020 CROMWELL BRIDGE ROAD  
TOWSON, MARYLAND 21284



DESIGNED	W.W.D.		
DRAWN	W.W.D.		
CHECKED	A.S.B.		
DATE	5-19-86		
BY	NR		
REVISION			

PROFILES OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 12  
5<sup>TH</sup> ELECTION DISTRICT  
CONTRACT NO 34-1437-D

SCALE:  
1" = 30' HOR.  
1" = 3' VERT.  
SHEET  
3 OF 5